

GB 100 Series

3 Channels GAS Mixer

Each Channel: 0 - 500 mL/min
Accuracy: 1.0%
Repeatability: 0,16% of reading
Response time: 50 ms
Software bundle.



www.mcqinst.com
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For MICRO Flows

Total Mixture Flow Rate: Up to 1,5 L/min



Up to 3 Channels.

GB 100 can manage and mix up to 3 different sources of gas with incredible high precision, creating accurate gas mixtures.

High Accuracy.

Our instrument has a native Calibration on available gases with 1% of accuracy for each channel.

Fast Response.

GB 100 is the fastest device on market:
It allows you to change the value of any setpoint in only 50 ms.

The Ultimate Gas Mixers.

MCQ Instruments offers the best, cheapest and fastest solutions to manage, control, measure and create Gas Mixtures or Dilutions.

We produce advanced, certified, interconnected, and trusted technologies that can help you to achieve your goals without any efforts. From laboratories to industrial needs, we have the right product that will manage your gas processes with automation and an incomparable precision.

Gases:

N₂,
O₂,
CO₂,
CH₄,
Air

(additional gases supported on request)



High Accuracy.

The incomparable precision of our Gas Mixer makes possible to bring forward a series of tests and experiments that would be impossible to achieve otherwise.

GB 100 Series is a dedicated solution for laboratories, and a solid alternative to the obsolete multi-channel solution using mass flow controllers, external power supply and readout.

Easy Connected.

MCQ Gas Blender 100 Series is easy to install and to use.

You will only need a laptop or a desktop computer to connect the instrument via a simple USB connection.

An easy push-in tube fittings system will allow you to connect your cylinders to the instrument and the output to lead your final mixture into your system.



* To be implemented

Intuitive Software.

MCQ Mixture Creator is our mixing software bundled for free, that allows direct access and control to all of our products. Thanks to a user-friendly interface, you can manage the gas mixing process by intervening directly on the single channel to modify and control both the final blending and your dynamic dilution.



Certified Products.



Fast Response.

We are proud to have developed the fastest device on the market.

Our GB 100 Series is a champion when we talk about accuracy and modularity of micro flows of gases. A change of the setpoint takes only 50ms to be real. Besides this is a value valid for every single channel

Market Analysis.

Research and Development (R&D) Labs, Institutes and Centers

- Calibration of Instruments
- Preparation of Test Gases
- Analytical Equipment
- Local Preparation of Gas Mixtures
- Chemical Laboratory

Analysis

- Gas Chromatography
- Quality Control

Food & Beverage

- Regulation of Controlled Atmospheres

Life Sciences

- Biotechnology
- Regulation of Gaseous Atmospheres
- Studies on Cell Cultures
- Pharmaceutical

Accurate. Compact. Reliable.

“The MCQ Gas Blender 100 Series is our solution for Micro Flows Gas Mixing & Dilution problems. A 3 channels solution in a compact box at a very convenient price. Easy to install, to set, and to use, it is the fastest instrument on the market.”

Specifications.

Accuracy:
(for each channel) N₂, 20 °C, 101.325 kPa (1 atm):
5-100% FS: 1% of SP
< 5% FS: 0,2% of FS

Repeatability: 0,16% of reading

Response time:
(for each channel) 50 ms

Power Supply: 16-36 VDC - Min 1,5 A

Operation Pressure: Max 25 psi

Working Temperature: 0-50 °C

Mass Flow Rates:
(for each channel) 0 - 500 mL/min (standard)
0 - 200 mL/min (on request)

Total Mixture Flow Rate: Up to 1,5 L/min

Gases: N₂, O₂, CO₂, CH₄, Air
(additional gases supported on request)

Communication: USB PC Interface
(*)RS 485 with open proprietary protocol ---- *To be implemented

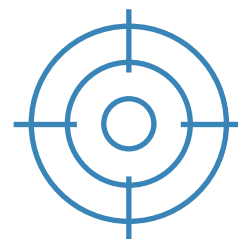
Fittings: Push-in fittings for 6-4mm tubes.
Other on request

Inlet Gas Channel: 3 Inputs

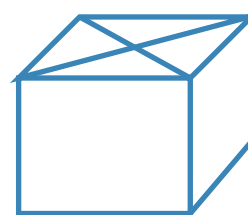
Outlet Gas Channel: 1 Output of mixed gases

User Interface: Gas mixing software.
1 LED signal interface

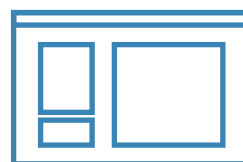
Certifications: CE, TUV, cTUVUS, Made in Italy



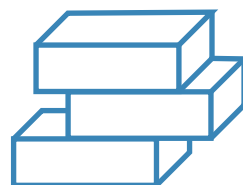
High Accuracy
Native calibration on available gas with 1% of accuracy for each channel.



Lab in a Box
All the tools in a single, compact and easy to transport box.



Software Bundle
Mixture Creator is an user friendly interface, with which you can easily manage any gas mixing process.



GB Family
We have as many solutions as many are your needs.